

DIRECT VENT FIREPLACE - NOVA

OWNER'S MANUAL





WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

SAFETY PRECAUTIONS



WARNING:

FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Leave the building immediately.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

INSTALLER:

Leave this manual with the appliance.

CONSUMER:

Retain this manual for future reference.

This appliance may be installed in an after-market permanently located, manufactured (mobile) home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

Massachusetts installations (Warning): This product must be installed by a licensed plumber or gas fitter when installed within the Commonwealth of Massachusetts. Other Massachusetts code requirements: Flexible connector must not be longer than 36in., a shut off valve must be installed; only direct vent sealed combustion products are approved for bedrooms/bathrooms. A carbon monoxide detector is required in all rooms containing gas fired direct vent appliances. The fireplace damper must be removed or welded in the open position prior to installation of a fireplace insert.

SAFETY PRECAUTIONS

FOR SAFE INSTALLATION AND OPERATION OF YOUR "ENVIRO" HEATER, PLEASE CAREFULLY READ THE FOLLOWING INFORMATION:

- All ENVIRO gas-fired appliances must be installed in accordance with their instructions. Carefully read all the instructions in this manual first. Consult the building authority having jurisdiction to determine the need for a permit prior to commencing the installation.
- **NOTE:** Failure to follow these instructions could cause a malfunction of the fireplace, which could result in death, serious bodily injury, and/or property damage.
- Failure to follow these instructions may also void your fire insurance and/or warranty.

GENERAL

- Installation and repair should be done by a qualified service person. The appliance should be inspected before the first use and, at least, annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative the control compartments, burners and circulating air passageways of the appliance be kept clean.
- Due to high temperatures, the appliance should be located out of high traffic areas and away from furniture and draperies.

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burn or clothing ignition.

- Young children should be carefully supervised when in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces. Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the appliance.
- Clothing or other flammable materials should not be placed on or near the appliance.

HOT GLASS WILL CAUSE BURNS DO NOT TOUCH GLASS UNTIL COOLED. NEVER ALLOW CHILDREN TO TOUCH GLASS.

FOR YOUR SAFETY

- Installation and service must be performed by a qualified installer, service agency or gas supplier.
- This installation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.
- To prevent injury, do not allow anyone who is unfamiliar with the stove to operate it.
- To prevent injury, if the pilot or pilot and burners have gone out on their own, open the glass door and wait 5 minutes to air out before attempting to relight the stove.
- Always keep the area around these appliances clear of combustible material, gasoline and other flammable liquids and vapours.
- These appliances should not be used as a drying rack for clothing or for hanging Christmas stockings/decorations.
- Due to the paint curing on the stove, a faint odor and slight smoking will likely be noticed when the stove is first used. Open a window until the smoking stops.

Always connect this gas stove to a vent system and vent to the outside of the building envelope. Never vent to another room or inside the building. Make sure the specified vent pipe is used, properly sized and of adequate height to provide sufficient draft. Inspect the venting system annually for blockage and signs of deterioration.

WARNING: Failure to position the parts in accordance with the diagrams in this booklet, or failure to use only parts specifically approved with this appliance, may result in property damage or personal injury.

WARNING: Do not operate with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

- Never use solid fuels such as wood, paper, cardboard, coal, or any flammable liquids, etc., in this appliance.
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system or any gas control which has been under water.
- Do not abuse the glass by striking it or slamming the door shut.
- If the Q2 unit is pulled out of its installation, and the ventair intake system is disconnected for any reason, ensure that the vent-air intake pipes are reconnected and re-sealed in accordance to the instructions noted in Initial Installation Direct Vent

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CODES AND APPROVALS

DIRECT VENT ONLY: This type is identified by the suffix DV. This appliance draws all of its air for combustion from outside the dwelling, through a specially designed vent pipe system.

This appliance has been tested and approved for installations from 0 feet to 4500 feet (1372 m) above sea level.

In the USA: The appliance may be installed at higher altitudes. Please refer to your American Gas Association guidelines which state: the sea level rated input of Gas Designed Appliances installed at elevations above 2000 (610 m) feet is to be reduced 4% for each 1000 feet (305 m) above sea level. Refer also to local authorities or codes which have jurisdiction in your area regarding the de-rate quidelines.

In Canada: When the appliance is installed at elevations above 4500 feet (1372 m), the certified high altitude rating shall be reduced at the rate of 4% for each additional 1000 feet (305 m).

This appliance has been tested by INTERTEK and found to comply with the established VENTED
 GAS FIREPLACE HEATER standards in CANADA and the USA as follows:

VENTED GAS FIREPLACE HEATER (Q2; NATURAL GAS)

TESTED TO: ANSI Z21.88a-2009/CSA 2.33a-2009 VENTED GAS FIREPLACE HEATERS CAN/CGA 2.17-M91 (R2009) GAS FIRED APPLIANCES FOR HIGH ALTITUDES CSA P.4.1-02 TESTING METHOD FOR MEASURING ANNUAL FIREPLACE EFFICIENCY

This ENVIRO Q2 Fireplace:

- Has been certified for use with natural gas; it is not to be used with any other gas.
- Is not for use with solid fuels.
- Is approved for bedroom or bed sitting room. (**IN CANADA**: must be installed with a listed wall thermostat. **IN USA**: see current ANSI Z223.1 for installation instructions.)
- Must be installed in accordance with local codes. If none exist, use current installation code CAN/CGA B149 in Canada or ANSI Z223.1/NFPA 54 in the USA.
- Must be properly connected to an approved venting system and not connected to a chimney flue serving a separate solid-fuel burning appliance.

IMPORTANT NOTICE (Regarding first fire up): When the unit is turned on for the first time, it should be turned onto high without the fan on for the first 4 hours. This will cure the paint, logs, gasket material and other products used in the manufacturing process. It is advisable to open a window or door, as the unit will start to smoke and can irritate some people. After the unit has gone through the first burn, turn the unit off including the pilot, let the unit get cold then remove the glass door and clean it with a good gas fireplace glass cleaner, available at your local ENVIRO dealer.



gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

SPECIFICATIONS

DIMENSIONS:

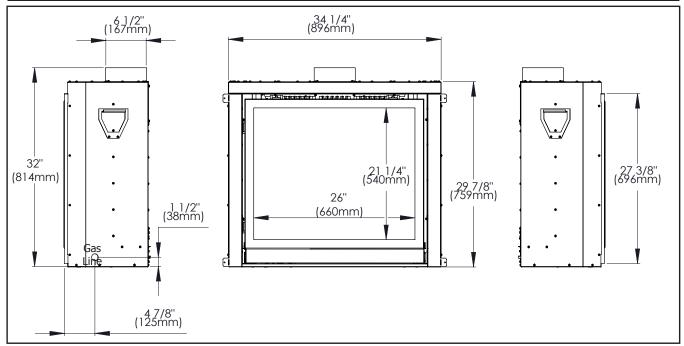


Figure 1. Q2 Dimensions - Top Vent

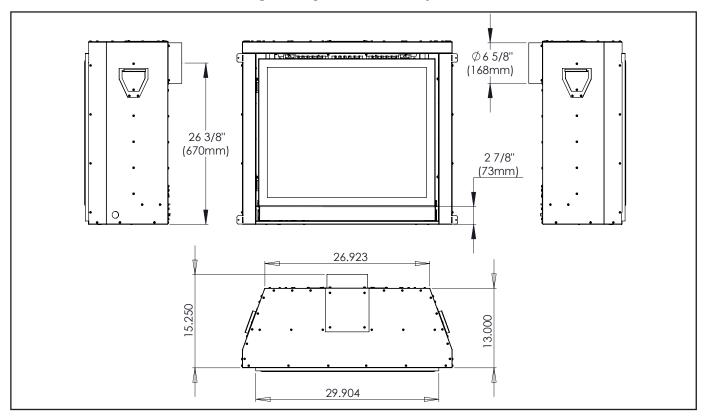


Figure 2. Q2 Dimensions - Rear Vent

RATING LABEL & LIGHTING INSTRUCTIONS LOCATION:

The rating label plate and lighting instructions are located under the gas valve and attached to the unit with a length of chain.

OPERATING INSTRUCTIONS

For Your Safety, Read Safety Precautions And **Lighting Instructions Before Operating**

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY OF LOSS OF LIFE.

LIGHTING AND TURNING OFF INSTRUCTIONS:

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life

- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:

Do not try to light any appliance. Do not touch any electrical switch; do not use any phone in your building. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department.

- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

- 1. STOP! Read the safety information above on this label.
- 2. Set the thermostat to the lowest setting.
- 3. Turn off all electric power to this appliance.
- 4. Open the front control panel.
- 5. Turn off the gas control knob clockwise to the "OFF" position.
- 6. Open door. Wait flve (5) minutes to clear out any gas. Close door. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the saftey information above on this label. If you don't smell gas, go to the next step.
- 7. Find pilot-located near the center rear of the firebox. Turn the gas control knob counter-clockwise
 to "PILOT". Push the gas control in fully and hold, keep knob depressed for about 30 seconds after the pilot is lit. Release knob. If pilot goes out, repeat steps 4 through 5.

WARNING: This gas valve has a lockout device, which will not allow the pilot burner to be relit until the thermocouple has cooled.

- -If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- -If the pilot will not stay lit after several tries, turn the gas control knob clockwise to "OFF" and call your service technician or gas supplier.
- Flip the burner switch to "ON" then turn the "HI/LOW" knob to the desired setting.
- 9. Close the front control panel.
- 10. Turn on all electric power to the appliance.
- 11. Set thermostat to desired setting.

TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to the lowest setting.

- 4. Turn the gas control knob clockwise to the "OFF" position.
- 2. Turn off all electric power to the appliance if service is to be performed. 5. Close the front control panel.

3. Open the front control panel and flip burner switch to "OFF"

C-12454

Figure 3. Lighting Instruction Label

OPERATING INSTRUCTIONS

PILOT LIGHT:

- 1. Turn off the gas to the fireplace. **If not recently done, remove the glass and let the unit air out for at least five (5) minutes to clear out any gas.** Turn on gas to the heater. Leak test all joints with soapy water. **NEVER USE OPEN FLAME FOR LEAK TESTING.**
- 2. Start the pilot by pressing the gas control knob and turning it to PILOT. While holding the gas control knob in, press the piezo ignitor several times until the pilot light starts. Hold the gas control knob in for 30 seconds. Check that the pilot has fully engulfed the thermocouple assembly (see Figure 4).
- 3. Start the main burner by turning the gas control knob to ON and then turn the rocker switch to ON. Check that all burner ports have flame.
- 4. Leak test all gas joints again.

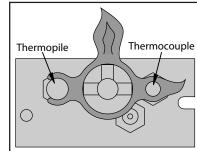


Figure 4. Pilot Flame

AIR SHUTTER (VENTURI):

The air shutter adjustment lever is underneath the firebox (see Figure 5).

The air shutter allows the amount of air mixing with the incoming gas to be adjusted in order to accommodate different climates and venting arrangements. Start the pilot and then the burner. Make sure the pilot flame is burning normally and none of the burner ports are plugged. Let the fireplace burn for roughly fifteen minutes and then examine the flames for impingement or soot build up.

The ideal flame will be blue at the base and light orange above. The flames should be of medium height. If the flames look like this, no venturi adjustment is needed. If the flames are fairly short and mostly

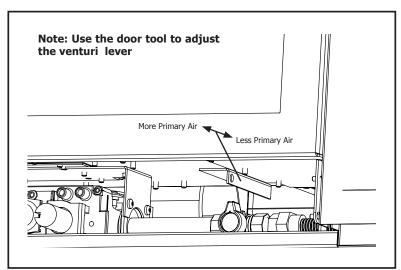


Figure 5. Air shutter adjustment lever

blue, the fireplace is getting too much air. Therefore, the air shutter should be closed (pushed it) slightly until the correct flames are achieved. Flames that are very orange, with tall, dark, stringy tips, are not getting enough air. Open the venturi until the flames clean up. If the venturi is opened, or closed all the way, and the correct flames cannot be attained, turn off the gas and contact the dealer.

Warning: Incorrect venturi adjustment may lead to improper combustion, which is a safety hazard. Contact the dealer if there is any concern about the venturi adjustment.

REMOTE CONTROLS (OPTIONAL):

This fireplace can use an optional remote control or an optional cordless wall thermostat. If either of these are to be used to control the fireplace for the majority of the time, leave the ON/OFF switch (on the control panel) in the remote/thermostat position. Consult the instructions included with the remote/wall thermostat for operation guidelines.

OPERATING INSTRUCTIONS

For Your Safety, Read Safety Precautions And Lighting Instructions Before Operating

BURNER LIGHTING:

- A) Make sure the pilot is lit.
- B) Turn gas control knob COUNTER CLOCKWISE to ON.
- C) Flip the burner switch to ON.
- D) Turn HI/LO knob to the desired flame height.

NOTE: Check that all burner holes are lit.

TO TURN GAS FIREPLACE OFF:

Flip switch to OFF to turn off burners only and turn the gas control knob to off to extinguish the pilot flame. Keep the pilot flame **OFF** when not in use. If the fireplace is to be serviced, turn the gas shut off valve to OFF (DO NOT FORCE IT) and disconnect all electrical power sources. See Figure 6 for control panel layout.

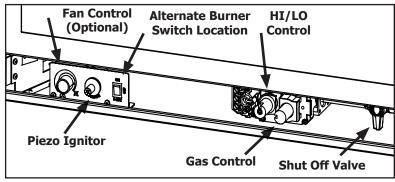


Figure 6. Control Panel

NOTE: When the unit is turned on for the first time, it should be turned onto high, with the fan OFF (if equipped), for the first two to four hours. This will cure the paint, logs, gasket material, and other products used in the manufacturing process. It is advised that a door or window be opened as the unit will start to smoke, which can irritate some people. After the unit has gone through the first burn, turn the unit OFF, including the pilot, and let the unit get completely cold. Then remove the glass and clean it with a good gas fireplace glass cleaner, available at your local Enviro dealer. See "MAINTENANCE AND SERVICE; GLASS DOOR REMOVAL" and "MAINTENANCE AND SERVICE; CLEANING THE GLASS."

BLOWER SPEED (OPTIONAL):

The blower will come on only when the fireplace is up to temperature (approximately 15 minutes). The speed of the fan can be changed by turning the fan control knob. The blower will continue to operate automatically after the unit has been shut off (approximately 25 minutes). To turn the blower off, turn the knob COUNTER CLOCKWISE until it "clicks" off (Figure 7).

It is advisable not to operate the blower below 1/3 speed as it puts a strain on the windings of the blower and running the blower at lower speeds could also cause premature fan failure.



Figure 7. Fan Control

NORMAL SOUNDS DURING OPERATION:

Table 1: Normal Sounds

Component	Sound & Reason	
Q2 & Surround Panels	Creaking when heating up or cooling down caused by thermal expansion	
Burner	Light pop or poof when turned off	
Temperature Sensor	Clinking when it senses to turn the blower on or off	
Pilot Flame	Quiet whisper while the pilot flame in on	
Blower / Fan	Air movement that increase and decreases with the speed of the blower	
Gas Control Valve	Dull click when turning on or off, this is the valve opening and closing	

MAINTENANCE AND SERVICE

ROUTINE MAINTENANCE:

At least once a year, run through the following procedures to ensure the system is clean and working properly. Check the burner to see if all the ports are clear and clean. Check the pilot to make sure it is not blocked by anything. The pilot flame should be blue with little or no yellow on the tips.

Warning: Clearances must be sufficient to allow access for maintenance and service

Warning: Failure to position the parts in accordance with this manual, or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

The venting system must be periodically examined; it is recommended the examination is done by a qualified agency.

CLEANING THE GLASS:

When the fireplace has cooled, remove the face of the fireplace along with the glass. See MAINTENANCE AND SERVICE - GLASS DOOR REMOVAL. Check the gasket material on the back of the glass, making sure that it is attached and intact.

During a cold start up, condensation will sometimes form on the glass. This is a normal condition with all fireplaces. However, this condensation can allow dust and lint to cling to the glass surface. Initial paint curing of the appliance can leave a slight film behind the glass, a temporary problem. The glass will need cleaning about two weeks after installation. **Use a mild glass cleaner and a soft cloth. Abrasive cleaners will damage the glass and painted surfaces.** Depending on the amount of use, the glass should require cleaning no more than two or three times a season. **Do not clean the glass when it is hot.**

CLEANING THE FIREBOX:

Remove the logs carefully, as they are very fragile. Gently remove all the coals and place on a paper towel. Vacuum the bottom of the firebox thoroughly. Carefully clean any dust off the logs and remove any lint from the burner and pilot. At this time, inspect the burner tube for cracking or severe warping. If a problem is suspected, contact the dealer. Check the logs for deterioration or large amounts of soot; a small amount on the bottom side of the logs is normal. Replace the logs and coals as in the Secondary Installation - Fire Grate and Log Set Installation section. If new/more coals are required, contact your nearest ENVIRO dealer.

REPLACING THE GLASS:

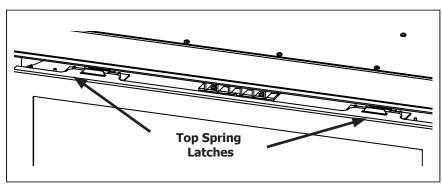
The glass in the fireplace is a high temperature ceramic. If the glass is damaged in any way, a factory replacement is required (see PARTS LIST). Wear gloves when handling damaged glass door assembly to prevent personal injury. Do not operate with the glass front removed, cracked or broken. Removal and replacement of the glass from the door **must** be done by a licensed or qualified service person. **The glass must be purchased from an ENVIRO dealer. No substitute materials are allowed.** Remove the door (see page 11). The replacement glass will come with a new gasket installed. Remove any silicone remnants from the door. Apply high temperature silicone to the two vertical faces of the door and install the new piece of glass with gasket (be sure to maintain edge clearances). Apply even pressure to the glass to allow the silicone to adhere to the gasket material.

MAINTENANCE AND SERVICE

CLEANING DECORATIVE SURFACES:

Painted and porcelain faces should be wiped with a damp cloth periodically. If a plated face has been purchased, it should be unpacked/unwrapped carefully to avoid getting anything on the surface of the finish, including cleaners, polish and finger prints. It is important to note that fingerprints and other marks can leave a permanent stain on plated finishes. **To avoid this, give the face a quick wipe with denatured alcohol on a soft cloth BEFORE lighting the fireplace.** Never clean the face when it is hot. Do not use other cleaners as they may leave a residue, which can become permanently etched into the surface.

GLASS DOOR REMOVAL:



The door needs to be removed for sceduled cleaning and to install the log set and various options. Use the door tool to unhook the spring latch door mechanism at the bottom corners of the door frame. Once detached pivot the door out and lift up off the top spring latches.

Figure 8. Top Alightment Slots For Glass Door

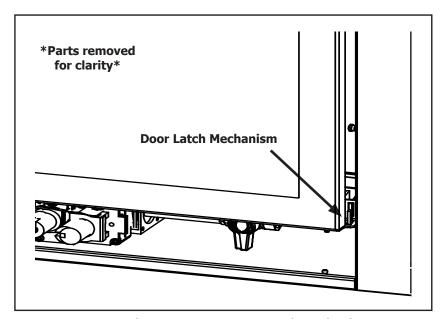


Figure 9. Bottom Door Latch Mechanisms

To replace the glass door, simply reverse the above procedure.

Warning: Do not touch or attempt to remove the glass door if the fireplace is not completely cold.

WARNING: Never operate the fireplace with the glass door removed.

MAINTENANCE AND SERVICE

BURNER REMOVAL:

The burner may need to be removed for a few reasons, including cleaning under the burner or to be replaced all together. **Proceed only when the unit has completely cooled down.**

- **Step 1:** Remove the glass door as shown in the Maintenance and Service Glass Door Removal.
- **Step 2:** Remove the log set and fire grate as shown in Secondary Installation Fire Grate and Log Set Installation
- **Step 3:** Pull the burner out of the venturi box and out.

To re-install the burner follow steps 1-3 in reverse. When placing the burner back in the unit be sure to adjust the air shutter back to the correct setting. Insure the front and rear lengths of the burner tube are parallel as it may have distorted with heat over time. The ideal placement for the burner tube is keeping it forward up against the burner stand stops.

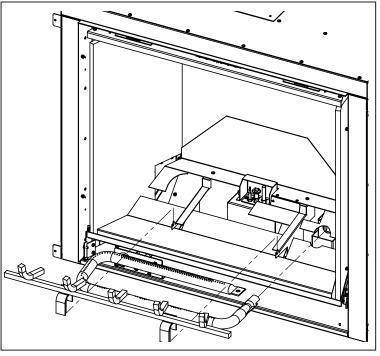


Figure 10. Removing Burner

Access Door:

There is an access door in the bottom on the firebox that is used for servicing components after the unit is installed in a construction enclosure. **Proceed only when the unit has completely cooled down.**

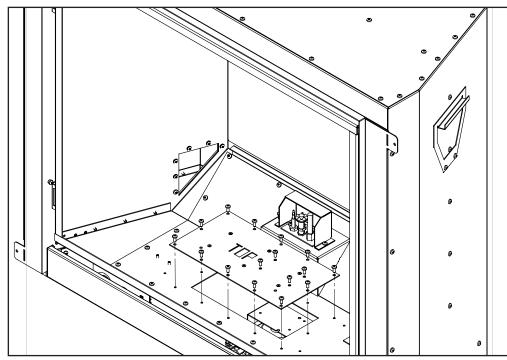


Figure 11. Removing Burner

- **Step 1**: Remove the burner as shown in the Maintenance and Service Burner Removal.
- **Step 2:** Remove the Upper Air Diverter by removing (2) T-20 bolts. Remove the Lower Air Diverter.
- **Step 3**: Remove the right and left burner stands by removing (4) T-20 bolts.
- **Step 4**: Remove the (16) T-20 bolts retaining the access door as shown in Figure 11.
- **Step 5**: After serviving assemble in the reverse order.

QUALIFIED INSTALLERS ONLY

INTRODUCTION:

This section of the owner's manual is for the use of qualified technicians only. Fireplace placement, hearths, facing, mantels, and venting terminations will be covered, as well as the gas and electric systems. There are several installation safety guidelines that must be adhered to. Please carefully read the safety precautions at the front of this manual.

NOTE: The Q2 comes as a top vent unit but can be converted to a rear vent.

Warning: Clearances must be sufficient to allow access for maintenance and service.

PLACEMENT AND FRAMING:

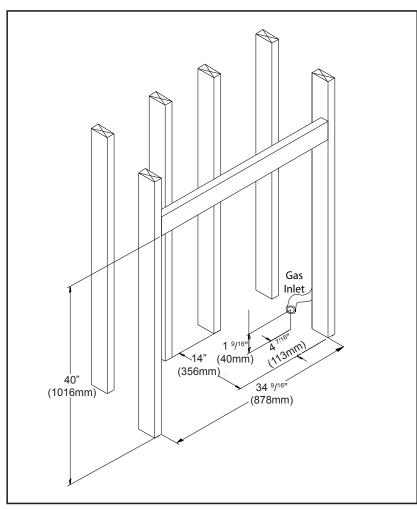


Figure 12. Dimensions for Framing the Firebox

Table 2. Framing Dimensions.

Firebox Framing				
Depth	14"	1016mm		
Width	34 ^{9/16} "	878mm		
Height - Rear Vent	40"	1016mm		
Height - Top Vent	*48"+	1219mm		
Gas Inlet (Distance From Back)	4 ^{7/16} "	113mm		
Gas Inlet (Height)	1 ^{9/16} "	40mm		

^{* +} vertical vent rise (not including elbow)

The location for the fireplace can be along a wall, raised, at floor level, or in a corner. There are specific framing measurements for each situation. The basic opening should have the dimensions shown in Figure 12. The fireplace must have a strong and level surface to be placed on. The surface should be made of wood or a non-combustible material, not carpet.

The gas line, **3/8**" JIC fitting, should be brought to the right side of the fireplace. The location should be chosen so the fireplace will be at least

36 inches (91.4 cm) from drapes, doors and other combustibles. The framed opening should also be a minimum of **4 5/8" (11.7 cm)** from the nearest perpendicular wall (sidewall to the edge of the opening).

QUALIFIED INSTALLERS ONLY

REAR VENT CONVERSION:

For smaller openings the Q2 can be converted from a top vent to a rear vent unit.

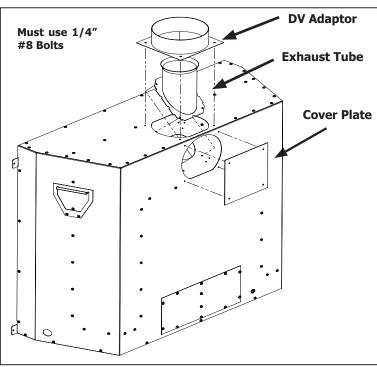


Figure 13. Vent Conversion - Step 1

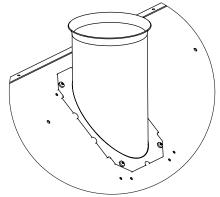
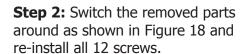


Figure 14. Upper Mounting Holes

Step 1: Using a T-20 screwdriver remove the DV Adaptor, Exhaust Tube, and cover plate (12 screws total) as shown in Figure 17.

Note: The DV adaptor and Cover Plate use the T20 **1/4**" bolts.



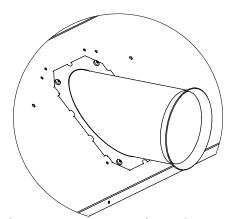


Figure 15. Lower Mounting Holes

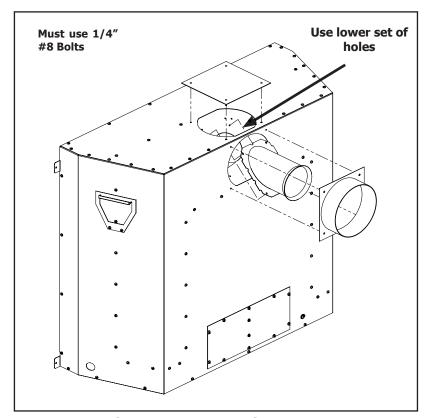


Figure 16. Vent Conversion - Step 2

QUALIFIED INSTALLERS ONLY

CORNER INSTALLATION:

The dimensions for installing a fireplace in the corner of a room are given in Figures 17 and 18. Refer to "INITIAL INSTALLATION - ALLOWABLE CO-AXIAL VENT CONFIGURATIONS" for allowable pipe lengths.

Do not interfere with the structural integrity of the walls.

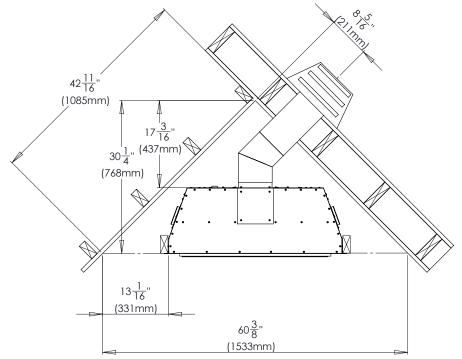


Figure 17. Dimensions for a corner installation, rear vented

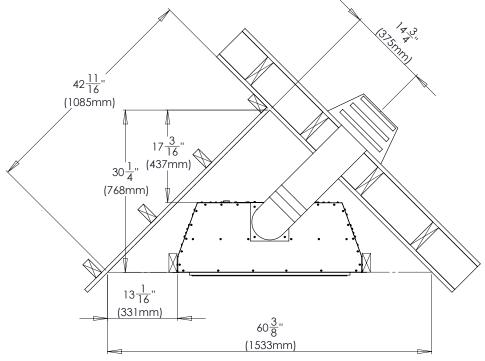


Figure 18. Dimensions for a corner installation, top vented

QUALIFIED INSTALLERS ONLY

MANTLE & Non-Combustible Clearances:

When installing the Q2 as a zero clearance fireplace the correct clearances and materials must be used:

ABOVE UNIT: A minimum 10" of non-combustible facing material, with a R-Value no less than 0.26, must be used above the unit (in front of the included steel framing plate).

IN FRONT OF UNIT:

ADJACENT/SIDEWALL: There must be a minimum distance of **4 5/8" (417mm)** from the side of the Q2 cabinet to an adjacent wall composed of combustible material (see Figure 19).

MANTLE: It is not necessary to install a mantle, but if one is desired the guidelines as shown in Figure 19

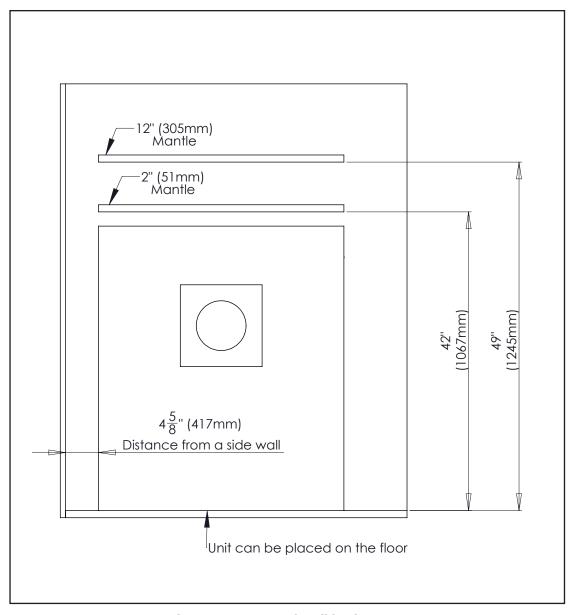


Figure 19. Non-Combustible Clearances

QUALIFIED INSTALLERS ONLY

DIRECT VENT:

WARNING: This appliance has been designed to draw room air for proper heat circulation from the bottom of the unit, and out the top front. Blocking or modifying these openings in any way can create hazardous situations.

The vent length for the Q2 must be between **6" (150 mm)** and **40' (12.2 m)**. This model is vented with co-axial **4"** intake, **6 5/8"** exhaust aluminum or stainless steel approved rigid vent leading into a vertical or horizontal termination cap. This model can aslo be used with aluminum or stainless steel flex venting. The flue collar of this model will fit inside of a standard **4"** x **6 5/8"** vent and must be either correctly interlocked or fastened, with three screws directly to the vent collar.

Check periodically that the vents are unrestricted. Also ensure that all direct vent pipes have been properly sealed and installed after routine inspection or cleaning. The air intake and exhaust pipes must be installed in the correct locations on the top of the Q2.

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VENT TERMINATION RESTRICTIONS:

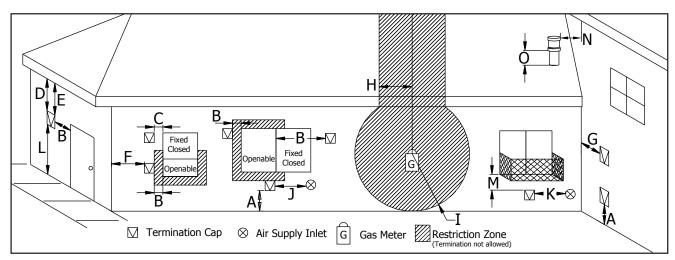


Figure 20. Vent Termination Restrictions, refer to Table 3

Table	3.	Vent	Termination	Clearances

Letter	Canadian Installation ¹	US Installation ²	Description
Α	12 in ((30 cm)	Clearance above grade, verandah, porch, deck, or balcony.
В	12 in (30 cm)	9 in (23 cm)	Clearance from window or door that may be opened.
С	12 in (:	30 cm)*	Clearance from permanently closed window (to prevent condensation).
D	24 in ((50 cm)*	Vertical clearance to ventilated soffit located above the terminal, within a horizontal distance of 2 ft (60 cm) from center line of terminal.
Е	18 in (4	45 cm)*	Clearance to unventilated soffit.
F	12 in (3	30 cm)*	Clearance to outside corner.
G	12 in (3	30 cm)*	Clearance to inside corner.
Н	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/ regulator assembly	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/ regulator assembly*	Clearance to each side of center line extended above meter/regulator assembly.
I	3 ft (91 cm)	3 ft (91 cm)*	Radial clearance around service regulator vent outlet.
J	12 in (30 cm)	9 in (23 cm)	Clearance to non-mechanical air supply inlet to building, or the combustion air inlet to any other appliance.
K	6 ft (1.83 m)	3 ft (91 cm) above if within 10 ft (3 m) horizontally	Clearance to mechanical air supply inlet.
L	7 ft (2.13 m ^{)t}	7 ft (2.13 m) ^{*t}	Clearance above paved sidewalk or paved driveway located on public property.
М	12 in / 30 cm ⁺	12 in / 30 cm* ⁺	Clearance under verandah, porch, deck, or balcony.
N	12 in (30 cm)*		Clearance horizontally to any surface (such as an exterior wall) for vertical terminations.
0	12 in (30 cm)	Clearance above roof line for vertical terminations.

 $^{^1}$ In accordance with the current CSA B149, Natural Gas and Propane Installation Code. 2 In accordance with the current ANSI Z223.1 NFPA 54, National Fuel Gas Code.

Clearances are in accordance with local installation codes and the requirements of the gas supplier.

^{*} These numbers are only estimates.

A vent shall not terminate directly above a side walk or paved driveway that is located between two single family dwellings and it serves both dwellings.

⁺ Permitted only if verandah, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

QUALIFIED INSTALLERS ONLY

VENTING CLEARANCES:

A 1" (25 mm) clearance to combustibles must be maintained around any vertical vent pipe. Around a horizontal vent pipe, the clearance to combustibles should be 2" (51 mm) above and 1½" (38 mm) on the sides and bottom. When combustible materials are directly above a 90° elbow, 3" (76 mm) of clearance are necessary.

Table 4. Vent Pipe Minimum C	learances
------------------------------	-----------

	Vertical Pipe to the Side Walls	Horizontal Pipe to the Sides & Bottom	Above an Elbow Above the Unit	Above an Elbow Not Above the Unit	Above Horizontal Vent Pipe	Wall Frame 8" (203mm) or less
Hard	1"	1½"	3"	3"	2"	10"x10"
Pipe	(25.4 mm)	(38.1 mm)	(76.2 mm)	(76.2 mm)	(51 mm)	(25x25cm)

A **10" (254 mm)** x **10" (254 mm)** frame (see Figure 21) will assure the proper support and spacing for the vent pipe as it passes through the wall. Installations in Canada require that a wall thimble be used for passing through walls and ceilings. All sealing and vapour barriers must comply with local building codes.

The configuration of the venting pipes depends on the locations of walls, ceilings, and studs. However, the pipes cannot be of arbitrary length and arrangement. Because the length of the vertical and horizontal sections dramatically affects the burning efficiency of the fireplace, certain guidelines have been set in Initial Installation - Allowable Co-Axial Vent Configurations. Venting terminals can not be recessed into a wall or siding.

WARNING: This gas appliance must not be connected to a chimney flue serving a separate solid-burning appliances.

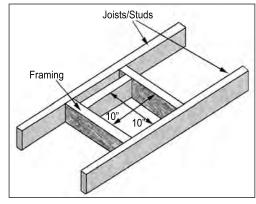


Figure 21. Vent Framing For Wall or Ceiling

APPROVED VENTING PARTS:

Table 5: Approved Vent Manufacturers

Manufacturer	Trade Name	Nominal Sizes
American Metal Products	AmeriVent Direct	4" - 6 5/8"
ICC	EXCELDirect	4" - 6 5/8"
Security Chimneys International LTD	Secure Vent	4" - 6 5/8"
Selkirk Metalbestos	Direct-Temp	4" - 6 5/8"
Simpson Dura-Vent	Direct Vent GS	4" - 6 5/8"

The Q2 fireplace has been tested and certified for use with AMERICAN METAL PRODUCTS "AMERIVENT DIRECT", SIMPSON DURAVENT TYPE GS PIPE FOR GAS STOVES. SECURITY CHIMNEY'S "SECURE VENT DIRECT VENT SYSTEM" and SELKIRK "DIRECT-TEMP VENT SYSTEM" kits are available for horizontal and vertical venting. When using Simpson Duravent, it is recommended that, before installation, a bead of RTV High Temperature Silicone should be applied to each outer vent joint, and Mil-Pac to each inner joint. When planning an installation, it will be necessary to select the proper length of vent pipe for the particular requirements.

WARNING: Do not mix parts from different vent manufacturers' systems.

QUALIFIED INSTALLERS ONLY

EXCEPTION TO WARNING: This product has been evaluated by Intertek for using a Direct Vent GS starting collar in conjunction with Secure Vent, Direct-Temp, AmeriVent Direct, and EXCELDirect venting systems. Use of these systems with the Direct Vent GS starting collar is deemed acceptable and does not affect the Intertek WH listing of the appliance.

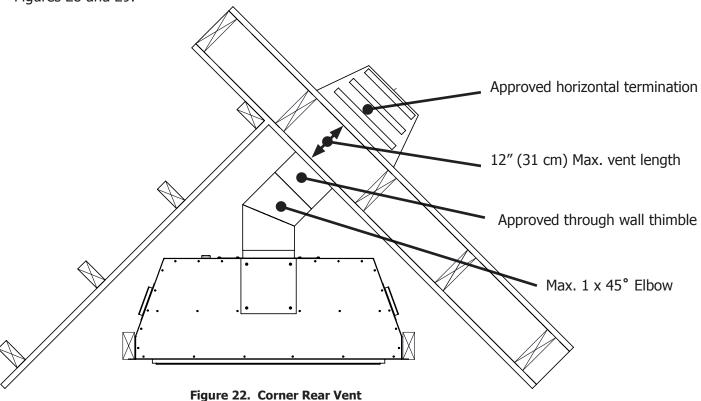
Table 6: Vent part numbers (Must state if galvanized or black wanted, PART NUMBERS)

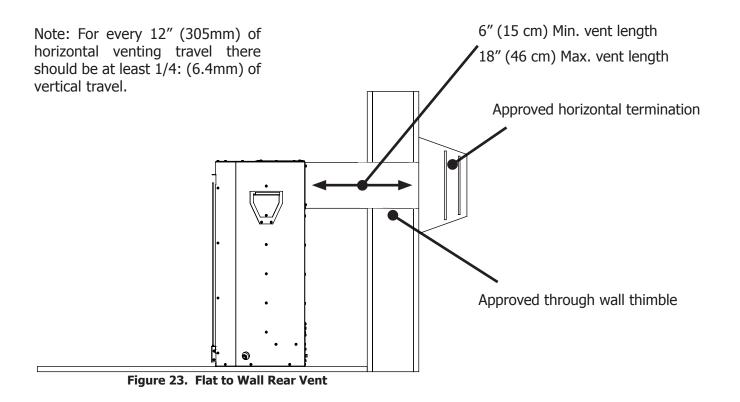
Direct Vent GS	Direct-Temp	Secure Vent	Ameri Vent Direct	Description
908	4DT-6	SV4L6	\searrow	6" pipe length
	$\bigg\rangle$	$>\!\!<$	4D7	7" pipe length
907	4DT-9	$>\!\!<$	\searrow	9" pipe length
906	4DT-12	SV4L12	4D12	12" pipe length
904	4DT-24	SV4L24	4D2	24" pipe length
903	4DT-36	SV4L36	4D3	36" pipe length
902	4DT-48	SV4L48	4D4	48" pipe length
945	4DT-EL45	SV4EBR45	4D45B	45° elbow, black
990	4DT-EL90	SV4EBR90	4D90B	90° elbow, black
950	4DT-VS	SV4VS		Vinyl siding standoff/sheild
942	4DT-WT	SV4RSN	4DWT	Wall thimble
953	4DT-SC	SV4FC	4DSC	Storm collar
963	4DT-FS	SV4BF	4DFSP	Fire stop
988	4DT-WS/B	SV4BM	4DWS	Wall strap/support/band
970	4DT-HKA	SV0SHK	4DHTK1	Horizontal termination kit (SD: Basic Kit, SEL: Kit A, SC: Standard Kit)
911	>>	> <		11" to 14 5%" pipe, adjustable
	4DT-AJ	> <	4D12A	4" to 10" pipe , adjustable
	>>	SV4LA12		1½" to 12" pipe , adjustable
943	4DT-AF6	> <	4DF	Flashing, 0/12 to 6/12 roof pitch
943S	4DT-AF12	> <	4DF12	Flashing, 7/12 to 12/12 roof pitch
	>>	SV4FA		Flashing, 1/12 to 7/12 roof pitch
	>>	SV4FB		Flashing, 8/12 to 12/12 roof pitch
943F	>>	SV4F		Flat flashing
991	4DT-HVC	> <		High wind vertical termination
985	4DT-HHC	> <		High wind horizontal termination
978	4DT-VKC	SV0FAK	4DVTK	Vertical termination kit
971	4DT-HKB	SV0SHK2	4DHTK2	Horizontal termination kit (SD: Kit A, SEL: Kit B, SC: Kit)

QUALIFIED INSTALLERS ONLY

HORIZONTAL TERMINATION - REAR VENT WITH NO VERTICAL RISE:

The Q2 can be installed in rear vent applications with no vertical rise within the parameters as shown in Figures 28 and 29.

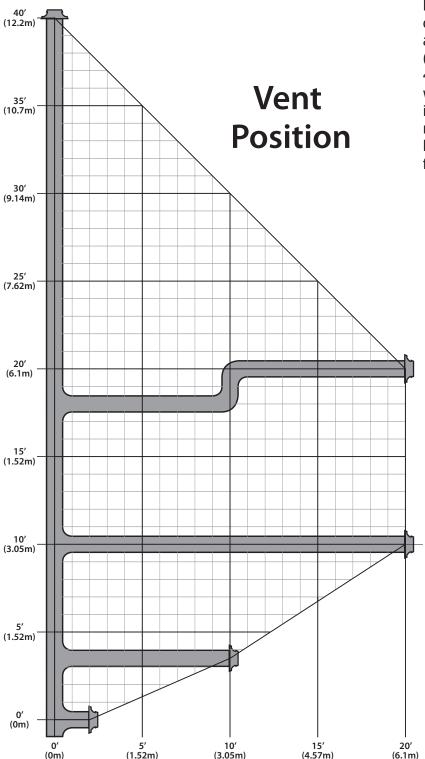




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ALLOWABLE CO-AXIAL VENT CONFIGURATIONS:

Figures 24 shows the range of venting options, it shows possible vent configurations if the unit is top or rear vented, for vertical and horizontal terminations, any layout that remains within the shaded area is acceptable. Having the fewest number of elbows is ideal, as they tend to disrupt air movement. Using 45° elbows is preferable to using 90° elbows. Also, a shorter vent system will perform better than a longer one. The total length of horizontal vent pipe can not exceed 20 feet (6.1m) and the total vent



length can not exceed 40ft (12.2m). Any combination of rise and run can be used as long as it lays within the shaded area (a total of two (2) 90° elbows or four (4) 45° elbows can be used. In addition to what is shown, if a 90° elbow is used in the horizontal plane, 3 feet (91.4cm) must be subtracted from the allowable horizontal run (for each 45° elbow, $1\frac{1}{2}$ feet must be subtracted).

Figure 24. Possible Vent Configurations for Top and Rear Vented; Vertical and Horizontal Terminations

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HORIZONTAL TERMINATION:

NOTES:

- 1. Horizontal pipes must not be level. For every 12" (305 mm) of horizontal travel (away from the stove), there should be at least ¼" (6.4 mm) of vertical travel. Never allow the vent to run downward, as this could cause high temperatures or even present the possibility of a fire.
- 2. The exterior of the horizontal vent termination must not be blocked or obstructed.
- 3. If the vent termination is not being attached to wood, the four wood screws provided should be replaced with material appropriate fasteners.
- 4. For buildings with vinyl siding, a vinyl standoff should be installed between the vent cap and the exterior wall. Attach the vinyl siding standoff to horizontal the termination. Note that the termination bolts onto the flat portion of the standoff, providing an air space between the wall and the vent termination. The air gap prevents excessive heat from possibly melting the vinyl sidina.
- 5. Horizontal pipes must be supported every **3' (914 mm)**. Plumber's all round strap will suffice.

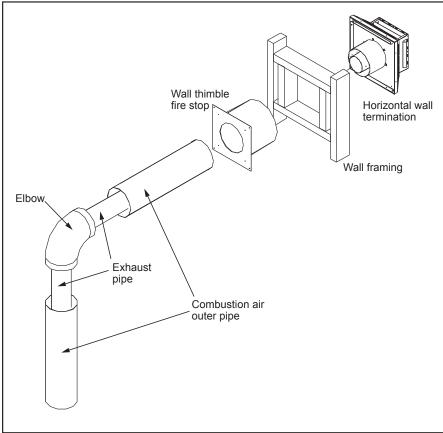


Figure 25. Horizontal Vent Termination

- 6. When running horizontal pipe, clearances to combustibles must be maintained 1½ inches (38 mm) sides, 1½ inches (38 mm) bottom, and 2" (51 mm) top.
- **Step 1.** Set the fireplace in the desired location. Check to determine if wall studs will be in the way when the venting system is attached. If this is the case, the location of the fireplace may have to be adjusted or the venting may have to be offset.
- **Step 2.** Direct vent pipe sections are designed with special twist-lock connections. Dry fit the desired combination of pipe and elbows to the appliance adaptor.
- **Step 3.** With the pipe in the correct position and attached to the fireplace, mark the wall for a **10**" **(25.4 cm)** x **10**" **(25.4 cm)** square hole (see Figure 25). The center of the hole should match the center line of the horizontal pipe. Cut and frame the hole in the exterior wall where the vent will be terminated. If the wall being penetrated is made of a non-combustible material (i.e. masonry or concrete) a **7**" **(17.8 cm)** hole is acceptable.

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NOTE: For Simpson Duravent only, place a bead of Mil-Pac or Rutland No 78 Stove and Gasket Cement on the outer edge of the inner exhaust pipe (non-flared end). Push the pipe sections together, then twist about ¼ turn, making sure the two sections are fully locked. Wrap all seams with foil ducting tape.

- **Step 4.** With the hole now framed, the wall thimble installed, and the pipe extending into the wall, proceed to the outside. Attach the termination to the pipe using RTV and Mil-Pac or Rutland No 78 Stove and Gasket Cement to seal joints. The vent pipe must extend into the vent cap at least **1**1/4 **inches (3.2 cm)**. Secure the connection between the vent cap and the pipe by attaching the two (2) sheet metal straps, which extend from the vent cap assembly to the outer wall of the vent pipe. Bend any remaining portion of the strap back towards the vent cap. Security Secure Vent uses a twist lock cap.
- **Step 5.** Position the horizontal vent termination in the center of the **10" (25.4 cm)** square hole and attach to the exterior wall with the four screws provided. The arrow on the vent termination should be pointing up. Run a bead of non-hardening mastic around the edges of the vent cap, to make a seal with the wall. Ensure the proper clearances to combustibles have been maintained.

VERTICAL TERMINATION:

- **Step 1.** Check the instructions for required clearances (air spaces) to combustibles when passing through ceilings, walls, roofs, enclosures, attic rafters, or other nearby combustible surfaces. Do not pack air spaces with insulation.
- **Step 2.** Set the gas appliance in the desired location. Drop a plumb bob down from the ceiling to the position of the appliance flue exit, and mark the location where the vent will penetrate the ceiling. Drill a small hole at this point. Next, drop a plumb bob from the roof to the hole previously drilled in the ceiling, mark the spot where the vent will penetrate the roof. Determine if ceiling joists, roof rafters, or other framing will obstruct the venting system. You may wish to relocate the appliance, or to offset, to avoid cutting load bearing members.
- Step 3. To install the Round Support Box/Wall Thimble in a flat ceiling, cut a 10 " (25.4 cm) square hole in the ceiling, centered in the hole drilled in Step 2. Frame the hole as shown in Figure 26.
- Step 4. Assemble the desired lengths of black pipe and elbows necessary to reach from the appliance adapter up through the Round Support Box. Insure that all pipe and elbow connections are in their fully twist-locked position.

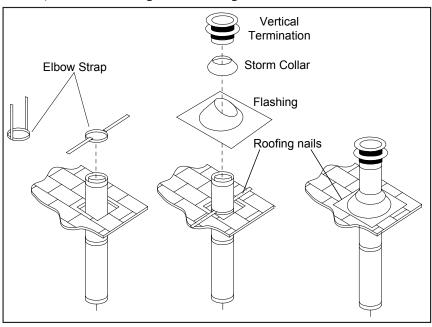


Figure 26. Vertical Vent Termination

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- **Step 5.** Cut hole in the roof centered on the small hole placed in the roof from Step 2. The hole should be of sufficient size to meet minimum requirements for Clearance to Combustibles, as specified. Continue to assemble lengths of pipe and elbows necessary to reach from the ceiling support box up through the roof line. Galvanized pipe and elbows may be utilized in the attic, as well as above the roof line. The galvanized finish is desirable above the roof line, due to the higher corrosion resistance.
- **Step 6.** Once the pipe sections have been joined, and run up through the hole in the roof, slip an elbow strap over the exposed sections, bend the support straps outwards, and push the elbow strap down to the roof level, as shown in Figure 26. Tighten the clamp around the pipe section. Use a level to make sure the pipe is truly vertical. With roofing nails, secure the support straps to the roof. Seal the nails holes heads with non-hardening mastic. Trim the excess length of the support straps that extend out beyond the edge of the flashing.
- **Step 7.** Slip the flashing over the pipe section protruding through the roof. Secure the base of the flashing to the roof with roofing nails. Use a non-hardening sealant between the uphill edge of the flashing and the roof. Insure the roofing material overlaps the top edge of the flashing. Verify that you have at least the minimum clearance to combustibles at the roof line.
- **Step 8.** Continue to add pipe sections until the height of the vent cap meets the minimum code requirements. Refer to Figure 27 and Table 7. Note that for steep roof pitches, the vent height must be increased. In high wind conditions, nearby trees, adjoining roof lines, steep pitched roofs, and other similar factors can result in poor draft, or down drafting. In these cases, increasing the vent height may solve the problem.
- **Step 9.** Slip the storm collar over the pipe, and push it down to the top of the roof flashing as shown in Figure 27. Use the non-hardening sealant around the joint between the pipe and the storm collar.
- **Step 10.** Twist-lock the vent cap.

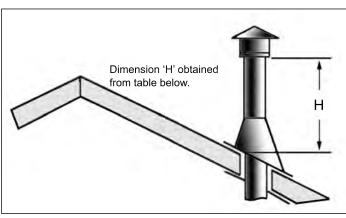


Figure 27: Height of Vertical Termination; Reference Table 8

Table 7: Minimum 'H' for Figure 35.

Roof Pitch	Minimum	Height (H)
	Feet	Meters
Flat to 7/12	1	0.3
Over 7/12 to 8/12	1.5	0.46
Over 8/12 to 9/12	2	0.61
Over 9/12 to 10/12	2.5	0.76
Over 10/12 to 11/12	3.25	0.99
Over 11/12 to 12/12	4	1.22
Over 12/12 to 14/12	5	1.52
Over 14/12 to 16/12	6	1.83
Over 16/12 to 18/12	7	2.13
Over 18/12 to 20/12	7.5	2.29
Over 20/12 to 21/12	8	2.44

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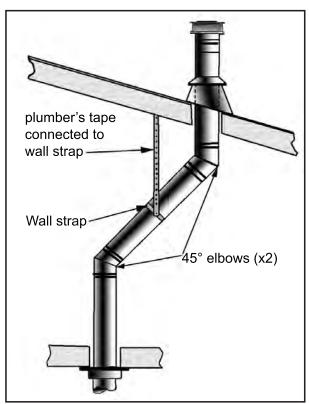


Figure 28: Use of Wall Straps.

closets and storage spaces, which the vertical vent passes through, must be enclosed. The enclosure may be framed and sheet-rocked with standard building materials. However consult the appliance manufactures installation instructions for the minimum allowable clearance between the outside of the vent pipe, and the combustible surfaces of the enclosure. Do not fill any required air spaces with insulation.

NOTES:

- (1) If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every 3' (914 mm), to avoid excessive stress on the elbows, and possible separation. Wall straps are available for this purpose (see Figure 38).
- (2) When ever possible, use 45° degree elbows instead of 90° degree elbows. The 45° degree elbow offers less restriction to the flow of flue gases and intake air.
- (3) For multi story installations; a ceiling firestop is required at the second floor, and any subsequent floors (see Figure 39). The opening should be framed to 10" (254 mm) x 10" (254 mm) inside dimensions, in the same manner as shown in Figure 40.
- (4) Any occupied areas above the first floor, including

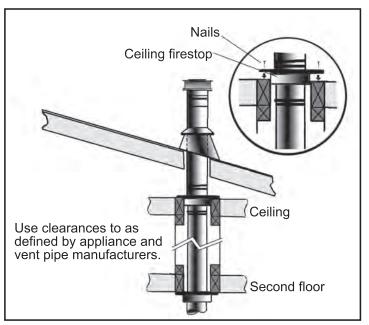


Figure 29: Multi-Story Vent Pipe Installation

QUALIFIED INSTALLERS ONLY

GAS LINE CONNECTION AND TESTING:

WARNING: Only persons licensed to work with gas piping may make the necessary gas connections to this appliance.

GAS LINE CONNECTION

- This stove is equipped with a certified flexible pipe located on the left side of the unit terminating in a **3/8**" female NPT fitting. Consult your local authorities codes or the CAN/CGA B 149 (1 or 2) installation code in Canada, or in the USA gas installations follow either local codes or the current edition of the National Fuel Gas Code ANSI Z223.1.
- The efficiency rating of this appliance is a product thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.

The appliance and its shutoff valves must be disconnected from the gas supply piping system during any pressure testing where the pressure exceeds ½ PSIG (3.45 KPa) or damage will occur to the valve.

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psig (3.45 KPa).

Always check for gas leaks with a soap and water solution after completing the required pressure test.

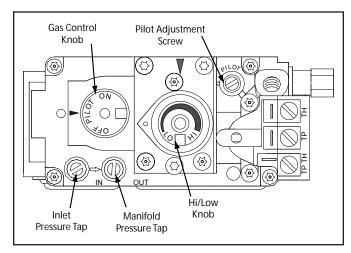


Figure 30: Fully Labeled Gas Valve.

TO TEST VALVE PRESSURES

The pressure taps are located on the top right of the valve shown in Figure 42.

- Turn set screw 1 turn counter clockwise to loosen,
- Place 5/16" (8 mm) I.D. hose over pressure tap system.
- Check pressures using a manometer.
- When finished, release pressure, remove hose & tighten set screw.

Main Orifice #40 DMS

Manifold Pressure 3.5" W.C. (0.87 KPa)

Min. Manifold Pressure 1.6" W.C. (0.40 KPa)

Max Supply Pressure 7.0" W.C. (1.74 KPa)

Min. Supply Pressure 4.5" W.C. (1.12 KPa)

Max BTU/hr Input 24,000 BTU/hr (7.03 KW)

Min. BTU/hr Input 17,000 BTU/hr (1.12 KW)

Table 8: Pressure and BTU Information

NEVER USE AN OPEN FLAME FOR LEAK TESTING.

QUALIFIED INSTALLERS ONLY

ELECTRICAL REQUIREMENTS:

The **Q2** will operate without external electrical power. This model has a Millivolt gas control which uses the pilot flame to generate enough electricity to operate the main burner. This appliance when equipped with a blower, must be electrically connected and grounded in accordance with local codes or in the absence of local codes, with the current CSA C22.1 CANADIAN ELECTRICAL CODE Part 1, SAFETY STANDARDS FOR ELECTRICAL INSTALLATIONS, OR THE NATIONAL ELECTRICAL CODE ANSI / NFPA 70 in the U.S.

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

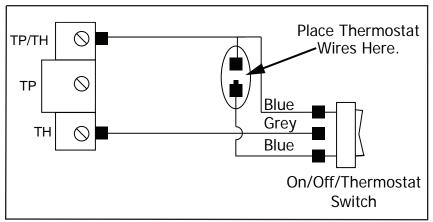


Figure 31: Q2 Wiring Diagram

Table 9: Recommended Thermostat Wire Size

Wire Size	Max. Length
14 gauge	100 ft (30.48 m)
16 gauge	60 ft (18.29 m)
18 gauge	40 ft (12.00 m)
20 gauge	25 ft (7.62 m)
22 gauge	18 ft (5.49 m)

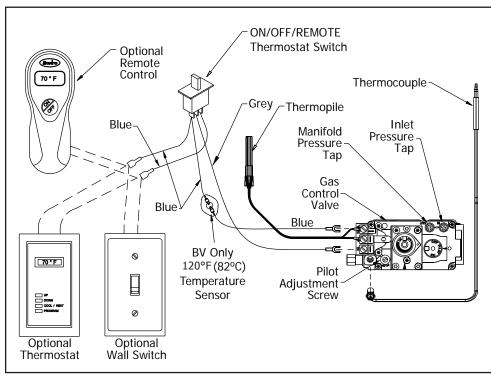


Figure 32: Accessory Wiring

The O2 comes from the manufacture with a on/ off switch mounted to the control panel. If you would like to install a wall mounted switch or thermostat then use the diagram to assist you in wiring the accessory into the unit. Disconnect connection behind the switch in the control panel as tap into the (2) terminals as shown in figure 32

Optional Thermostat (50-583)
Optional Wall Switch (50-559)

QUALIFIED INSTALLERS ONLY

ELECTRICAL REQUIREMENTS:

Optional Fan Kit (50-2981): The fan will not operate if the appliance is cold. Once the unit is lit and the fan is set to the desired level, the fan will automatically turn on upon reaching operating temperature. The fan will automatically turn off after the appliance has cooled down.

The fireplace must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current CSA C22.1 Canadian Electrical Code Part 1, Safety Standards For Electrical Installations, or The National Electrical Code ANSI / NFPA 70 in the US..

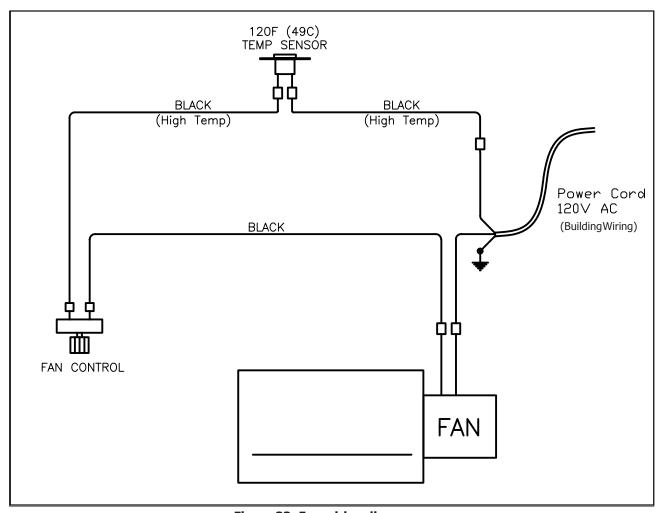


Figure 33: Fan wiring diagram

CAUTION: When servicing controls, label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

If any of the original wire as supplied with the appliance must be replaced, it must be replaced with 18 AWG wire with a temperature rating of 105°C

SECONDARY INSTALLATION

PANEL INSTALLATION (OPTIONAL):

These instruction are applicable to both the Q2 brick liner set (50-2977) and the Q2 enamel porcelain liner set (50-2978).

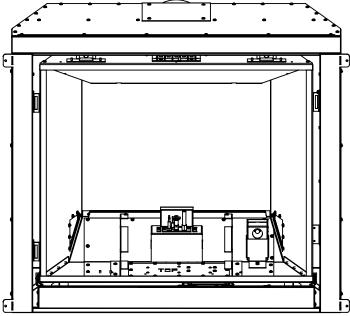


Figure 34. Firebox liner preperation

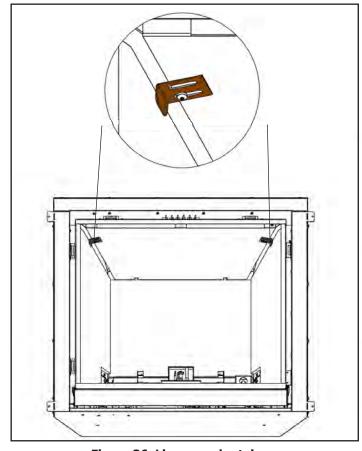


Figure 36. Liner panel retainers

Step 1: Be sure the fireplace is cool. Remove the door, the log set (if installed), log grate, burner tube, and the upper and lower air diverters. Removal of these parts will be found in the MAINTENANCE AND SERVICE section of this manual. Once all required components are removed your appliance should resemble Figure 34.

Step 2: The panels are delicate so please handle with care. Remove the panels from their packaging and insert the rear liner first followed by the sides. Hold into position as shown in Figure 35.

Step 3: Screw the (2) retainer brackets into the existing exhaust baffle with the supplied #8 T-20 bolts. Before tightening press the retainer onto the panel firmly. Tighten them once the panels seems to be in the correct position. (See Figure 36)

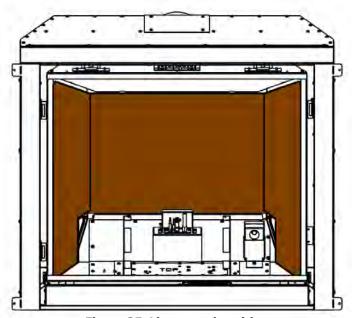


Figure 35. Liner panel position

SECONDARY INSTALLATION

FIRE GRATE AND LOG SET INSTALLATION:

The placement of the logs is not arbitrary. If they are positioned incorrectly, the flames can be "pinched" and will not burn correctly. All of the logs come with either a notch or ledge, which make alignment easier. Using the pictures provided, carefully set the logs in place (see Figures 37 through 41).

NOTE: The logs are fragile and should be handled gently.

Figure 34: This is how the firebox looks with only the burner, air diverters, and log grate in place. The log grate can be easily removed by simply lifting up off the stands.



Figure 37. Empty firebox with air diverter, grate, and burner tube

Step 1: Place the back log on the top legde of the air diverter as far back as it will go. Install the ember bed assembly into the center of the burner tube on the burner stands as shown. Bring the burner tube as far forward as you can on the burner stands while **maintaining parallelism between all the components in this step.**

NOTE: The burner tube may need to be bent by hand slightly in order for it to seat correctly.



Figure 38. Back Log and Ember Bed Installation

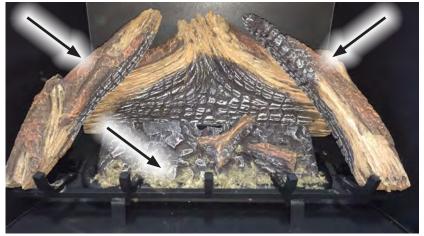


Figure 39. Left and Right Large Logs with Ember Wool

Step 2: Bust up the ember wool (C-10699) as fine as possible (It is recommended to use a stiff bristle brush or tabacoo/coffee grinder). Place the wool lightly on the burner tube (just enough to cover about 70% of the front section of the tube). Place the large left log into position as shown with the back side flush against the firebox wall. Place the large right log into position; the back log has markings indicating where to line it up.

SECONDARY INSTALLATION



Figure 40. Third Stage Log Set Installation

Step 3: Install the small finger-shaped log into position. There is a notch cut out on the underside the will locate the log on the grate. Be sure the log rests in the center of the two grate arms and points straight up onto the ember bed.

Place the larger log into position by locating the lower notch on the grate arm. The upper end of the log will rest on the tip of the finger-shaped log below. Roll the log forward until the it resembles Figure 40.

Step 4: Install the final elbow-shaped log into position. There is a notch on the bottom of the log to locate it on the grate crossbar as well as a notch to locate the log onto the grate arm. The top tip of this log should lay at the tip of the twig on the ember bed.

Finish the set-up by carefully spreading the coals around underneath the log grate.



Figure 41. Fourth Stage Log Set Installation

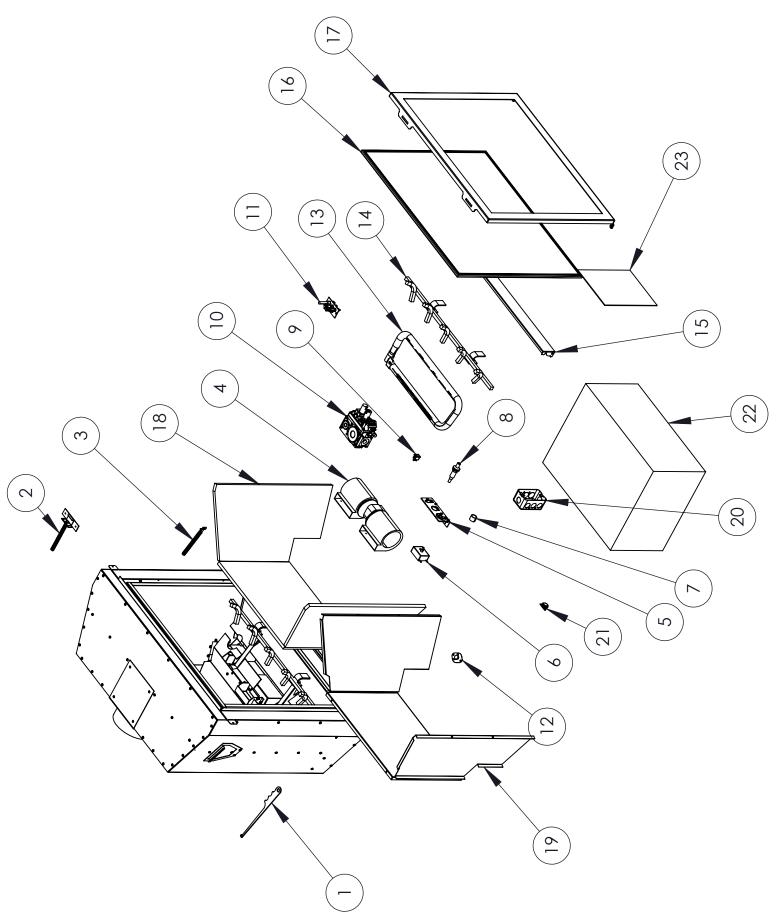
TROUBLE SHOOTING

Problem	Possible Cause	Solution	
The main burner does not	The gas valve may not be on.	Check that the gas control knob is in the "ON" position.	
ignite when called for.	Thermostat is not calling for heat.	Adjust the thermostat several degrees above ambient temperature.	
	Problem with gas valve.	 Use a DC voltmeter to measure the voltage across the TPTH and TP terminals. Main operator voltage: Open circuit ≥ 325mV Closed circuit ≥ 100mV If voltage is not present, check the control circuit for proper operation. If proper control system voltage is present, replace the gas control. 	
Spark will not light the pilot after repeatedly pressing the spark ignitor.	Defective piezo ignitor.	 Check connections to ignitor. If ignitor connections are good but no spark, replace ignitor. 	
	Broken spark electrode.	Check for broken ceramic insulation, replace electrode if broken.	
	Misaligned spark electrode.	If spark is not arcing from electrode to pilot, loosen the screws on the pilot base adjust and tighten.	
Pilot will not remain lit.	Problem with thermocouple circuit.	 Check for proper connection of the thermocouple to the rear of the valve. If loose, fully tighten. Check pilot for full flame impingement around thermocouple. If flame is too small, check gas pressure, adjust pilot rate screw, check pilot head for damage. Check thermocouple voltage at valve. It must be greater than 5 mV. If low, replace thermocouple. 	
	Air in gas line (pilot dies while knob is depressed).	Bleed line. Check gas line pressure. Contact dealer.	
Burners will not remain lit.	Problem with thermopile circuit.	 Check gas line pressure . Check for flame impingement on thermopile. If low, see "Pilot will not remain lit". Check thermopile for minimum of 300 mV when burner is switched on. Check wiring to thermostat for breaks. 	
Flame lifting	Leak in vent pipe	Check for leaks in vent connections.	
	Improper vent configuration	Check vent configuration with manual.	
	Terminal may be recirculating flue gases	Check to see if terminal is on correctly.May need to install high wind termination cap.Contact dealer.	
Glass fogs up	Normal Condition: after the appliance warms up the glass will clear. **Due to additives in gas, glass may get hazy during operation** Clean as needed.		
Blue Flames	Normal during start up: flames will yellow as the fireplace heats up.		
Flames are burning "dirty" or sooting	Flame impingement	Check log positioning. Increase primary air by opening the venturi shutter and/ or by opening the vent restrictor. See also "Burners will not remain lit."	
Remote control doesn't work	Problem with the remote	One or more of the batteries are dead. See remote control instructions.	
	Problem with fireplace	 The on/off switch is turned to OFF. The gas control valve is turned to PILOT or OFF. The pilot has gone out. 	

PARTS LIST

Table 10: Q2 Parts List

Reference Number	Part Description	Part Number
1	Door Release Tool	50-2510
2	Top Door Hook Mechanism w/ Spring (set of 2)	50-2687
3	Bottom Door Latch Mechanism w/ Spring (set of 2)	50-3025
4	Convection Fan Only	50-2493
5	Control Panel w/ Decal	50-2989
6	FPI Fan Controller (69.5V) 115V W/FS Knob	EC-039A
7	Fan Controller Knob w/Decal	EC-040
8	S.I.T. Piezo Ignitor	EC-023
9	FPI Burner Switch	EC-026
10	S.I.T. Nova Valve	50-1421
11	S.I.T. Pilot Assembly - Standing Pilot	50-2513
12	120 Degree Fan Temperature Sensor	EC-001
13	Q2 Log Tube Burner	50-3024
14	Log Grate	50-3023
15	Control Cover	50-3022
16	Door Glass w/ Gasket (28.5 x 23.8in)	50-3021
17	Door Complete	50-3020
18	Ceramic Brick Liner Set (3 Pieces)	50-2977
19	Black Enameled Steel Liner Set (3 Pieces)	50-2978
20	Electrical Box	50-3018
21	Electrical Box Strain Relief	50-3019
22	High Definition Log Set	50-2979
23	Q2 Owners Manual	50-3011
-	12 oz. Can of Metallic Black Touch Up Paint	PAINT-12-MB
-	12 oz. Can of Flat Black Touch Up Paint	PAINT-12-FB
-		



Notes

Notes



Warranty for Enviro Gas Products

Sherwood Industries Ltd. ("Sherwood") hereby warrants, subject to the terms and conditions herein set forth, this product against defects in material and workmanship during the specified warranty period starting from the date of original purchase at retail. In the event of a defect of material or workmanship during the specified warranty period, Sherwood reserves the right to make repairs or to assess the replacement of a defective product at Sherwood's factory. The shipping costs are to be paid by the consumer. All warranties by Sherwood are set forth herein and no claim shall be made against Sherwood on any oral warranty or representation.

Conditions

- A completed warranty registration must be submitted to Sherwood within 90 days
 of original purchase via the online warranty registration page or via the mail-in
 warranty registration card provided. Have the installer fill in the installation data
 sheet in the back of the manual for warranty and future reference.
- This warranty applies only to the original owner in the original location from date of install.
- The unit must have been properly installed by a qualified technician or installer, and must meet all local and national building code requirements.
- The warranty does not cover removal and re-installation costs.
- Sherwood Industries Ltd. reserves the right to make changes without notice.
- Sherwood Industries Ltd. and its employees or representatives will not assume any damages, either directly or indirectly caused by improper usage, operation, installation, servicing or maintenance of this appliance.
- A proof of original purchase must be provided by you or the dealer including serial number.

Exclusions

An expanded list of exclusions is available at www.enviro.com/help/warranty.html This warranty does not cover:

- Damage as a result of improper usage or abuse.
- Damage caused from over-firing due to incorrect setup or tampering.
- Damage caused by incorrect installation.

To the Dealer

- Provide name, address and telephone number of purchaser and date of purchase.
- Provide date of purchase. Name of installer and dealer. Serial number of the appliance. Nature of complaint, defects or malfunction, description and part # of any parts replaced.
- Pictures or return of damaged or defective product may be required.

To the Distributor

Sign and verify that work and information are correct.

Sherwood Industries Ltd.

6782 Oldfield Road, Victoria, BC . Canada V8M 2A3 Online warranty registration: www.enviro.com/warranty/

Category	One Year	Two Year	Limited Lifetime (7yr)
Parts ¹ (unit serial number required)		✓	
Firebox Liner Panels (excluding porcelain)		Ceramic	Steel
Firebox			~
Heat Exchanger			~
Burner			~
Ceramic Logs ²			~
Ceramic Glass ³	✓		
Pedestal / Legs (excluding finish)			~
Door Assembly			~
Surround Panels (excluding finish)			✓
Exterior Panels (excluding finish)			Up to 5 years
Electrical Components		✓	
Exterior Surface Finishing ⁴	✓		
Labour	✓		

- ¹ Whereas warranty has expired, replacement parts will be warrantied for 90 days from part purchase date. Labour not included. Unit serial number required.
- ² Log set and panels excludes wear and tear or breakage caused by cleaning or service.
- ³ Glass is covered for thermal breakage. Photos of box, inside of door, and unit serial # must be supplied for breakage due to shipping.
- ⁴ Exterior Surface finishing covers plating, enamel or paint and excludes colour changes, chipping, and fingerprints. Travel costs not included.

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INSTALLATION DATA SHEET

The following information must be recorded by the installer for warranty purposes and future reference.

NAME OF OWNER:	NAME OF DEALER:
ADDRESS:	ADDRESS:
PHONE:	PHONE:
MODEL:	NAME OF INSTALLER:
SERIAL NUMBER:	
DATE OF PURCHASE: (dd/mm/yyyy)	ADDRESS
DATE OF INSTALLATION:(dd/mm/yyyy)	ADDRESS:
☐ NATURAL GAS (NAT) ☐ PROPANE(LPG)	
INLET GAS PRESSURE:in wc	
MAIN BURNER ORIFICE:# DMS	PHONE:
PILOT ORIFICE #ORin diam.	
INSTALLER'S SIGNATURE:	